## INTERNATIONAL SEARCH REPORT

Inten \_ Application No PCT/FP2004/052292

		PCT/EP2	2004/052292
A. CLASSII IPC 7	FICATION OF SUBJECT MATTER B01J31/02 B01J23/755 B01J23/	44 C07C2/08	
According to	International Patent Classification (IPC) or to both national classific	cation and IPC	
B. FIELDS			
IPC 7	cumentation searched (classification system followed by classificat $B01J - C07C$	•	
Documentat	ion searched other than minimum documentation to the extent that	such documents are included in the field	ds searched
	ata base consulted during the international search (name of data baternal, WPI Data, PAJ	ase and, where practical, search terms	used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
А	M.F. PINHEIRO, R.S. MAULER, R.F. "Biphasic Ethylene Polymerizatio Diiminenickel Catalyst" MACROMOL. RAPID COMMUN., vol. 22, 2001, pages 425-428, XP the whole document	n with a	1-13
A	Y. CHAUVIN, S. EINLOFT, H. OLIVIER: "Catalytic Dimerization of Propene by Nickel-Phosphine Complexes in 1-Butyl-3-methylimidazolium Chloride/AlEtxCl3-x (x=0,1) Ionic Liquids" IND. ENG. CHEM. RES., vol. 34, 1995, pages 1149-1155, XP002279102 the whole document		1-13
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X Funt	her documents are listed in the continuation of box C.	Patent family members are li	sted in annex.
"A" documer consider filling of the consider which citation other "P" documer of the consider "P" documer "P" documer consider "P" documer "P" docu	ant which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but	"T" later document published after the or priority date and not in conflicted to understand the principle invention.  "X" document of particular relevance; cannot be considered novel or cinvolve an inventive step when to document of particular relevance; cannot be considered to involve document is combined with one ments, such combination being in the art.  "8" document member of the same p	I will the application but or theory underlying the the claimed invention annot be considered to the document is taken alone the claimed invention an inventive step when the or more other such docuobolious to a person skilled
	actual completion of the international search	Date of mailing of the internation	
	7 December 2004	23/12/2004	· .
	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Filjswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Schoofs, B	

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
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	CHAUVIN Y ET AL: "Oligomerization ofn-Butenes Catalyzed by Nickel Complexes Dissolved in Organochloroaluminate Ionic Liquids" JOURNAL OF CATALYSIS, ACADEMIC PRESS, DULUTH, MN, US, vol. 165, no. 2, 15 January 1997 (1997-01-15), pages 275-278, XP004459645 ISSN: 0021-9517 the whole document	1-13
•	US 2003/166985 A1 (ZUSHMA STEPHEN ET AL) 4 September 2003 (2003-09-04) paragraph '0106!; examples	1-13
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Information on patent family members

	Inten Application No	
-	PCT/EP2004/052292	_

Patent document cited in search report	Publication date	Patent family member(s)		Publication date	
US 2003166985 A1	04-09-2003		2529 A1	04-09-2003	